## ABSTRACT OF THE DISCLOSURE

An image sensing apparatus is provided with an image sensor, a first storage section for storing image data from the image sensor owing to an exposure to an object for an exposure time, a second storage section for storing noise data from the image sensor without exposure for a time substantially equal to the exposure time in the first photographing operation, a multiple reference value storing section for storing multiple reference values for modifying noise data, a reference value selecting section for comparing noise data with multiple reference values, and selecting a reference value among the multiple reference values most approximate to the noise data, a data modifying section for modifying the noise data in accordance with the selected reference value, and a subtracting section for subtracting the modified noise data from the image data stored in the first storage section.